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Niniane Wang

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EXAMINER

DANG, THANH HA T

ART UNIT

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/813,875	<b>Applicant(s)</b> WANG ET AL.	
	<b>Examiner</b> Thanh-Ha Dang	<b>Art Unit</b> 2163	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 06 November 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-56 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-56 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. Claims 1-56 are rejected in this Office Action.

#### ***Continued Examination Under 37 CFR 1.114***

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/06/08 has been entered.

#### ***Response to Amendment***

3. Receipt of Applicant's Amendment filed 11/06/08 is acknowledged.

#### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6, 10-32, 36-52 and 54-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,421,675 issued to Ryan et al ("Ryan"), further in view of US Patent No. 6,571,234 issued to Knight et al ("Knight"), and further in view of US Patent No. 7,162,473 issued to Dumais et al. ("Dumais").

As to **Claims 1 and 27**, *Ryan teaches* a method of ranking article identifiers of a result set from an implicit query implied from a user's current context, the method comprising:

- receiving an event concerning the user's current context (*Abstract, lines 1-5*), wherein the event comprises a user interaction with an article having content stored on a local client device (*Figures 1B, block100A-D, column 4, lines 3-4*), wherein the article is associated with at least one of a plurality of client applications (*column 36 line 46 – column 38 line 15 wherein the search system described is an example of a client application*);
- ranking the article identifiers (*column 6, lines 13-16*);
- *Ryan does not explicitly teach* generating an implicit query based at least in part on the at least one keyword; performing a search based at least in part on the implicit query to determine a result set, wherein the result set comprises one or more article identifiers associated with articles relevant to the implicit query. However,  
*Knight teaches* generating an implicit query (*column 8, line 48-51*) based at least in part on the at least one keyword (*Figure 2, column 19, lines 45-51*

- wherein data filtered implicitly equivalent to keyword*); performing a search based at least in part on the implicit query to determine a result set (*Figures 3A (block307A), 3D (block360), 4 and 5 (block530), column 11, lines 45-48 and line 52 wherein retrieving entries meeting the user's search/filter criteria read on the implicit query to determine a result set limitation*), wherein the result set comprises one or more article identifiers associated with articles relevant to the implicit query (*Figures 3C-D, column 20, lines 24-29*). Thus, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine method to manage queries teaching of Knight with search engine teaching of Ryan to provide method and system which enhance and improve the overall performance of computer system that access and display a collective amount of shared interest data and information in response to user's request.
- *Ryan in combination with Knight does not explicitly teach analyzing the content of the article associated with the event concerning the user's current context to extract at least one keyword. However,*  
*Dumais teaches analyzing the content of the article associated with the event concerning the user's current context to extract at least one keyword (Figure 1, column 4, lines 41-67 and column 5, lines 1-8).* Thus, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine method for usage analyzer that determines user accessed sources and associated metadata, processing implicit queries based on interest to

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users teaching of Dumais with method to manage queries teaching of Knight and search engine teaching of Ryan to provide method and system that facilitate information retrieval of data wherein the retrieval of data is provided to a user in a cognitively relevant manner (Dumais, column 1 lines 12-14).

As to **Claims 2 and 28**, *Ryan, Knight in combination with Dumais teaches wherein ranking the article identifiers is based at least in part on a preference of a current user (Ryan, Figures 2 and 3B, column 5, lines 29-32 wherein personalization information such as search customization preferences and wherein information is entered actively once by the user read on preference of a current user limitation; and column 7, lines 36-48 wherein personal hit-list is intended to a current user).*

As to **Claims 3 and 29**, *Ryan, Knight in combination with Dumais teaches wherein the preference of the current user is based at least in part on click-through data associated with the article identifiers (Ryan, Figures 3B and 23, column 33, lines 15-18).*

As to **Claims 4 and 30**, *Ryan, Knight in combination with Dumais teaches wherein the preference of the current user is based at least in part on file type associated with the article identifiers (Ryan, Figure 2, column 5, lines 30-34).*

As to **Claims 5 and 31**, *Ryan, Knight in combination with Dumais teaches wherein ranking the article identifiers is based at least in part on characteristics of the content of the article, wherein the characteristics comprise meta-data associated with the article content (Ryan, Figures 19 and 20, wherein defined in*

*column 28, lines 19-53; column 30, lines 62-66, wherein each content transmitted with the search results made up of web pages listing is tagged, wherein each tag used to describe data read on meta-data limitation).*

As to **Claims 10 and 36**, *Ryan, Knight in combination with Dumais teaches* wherein ranking the article identifiers is based at least in part on characteristics of the content of the article, wherein the characteristics comprise number data associated with the keyword within the article (*Ryan, column 17, lines 40-45 illustrate the ranking is based on number data*).

As to **Claims 11 and 37**, *Ryan, Knight in combination with Dumais teaches* wherein the number data comprises a number of letters in the keyword (*Ryan, column 14, lines 57-67, wherein Table 6 illustrates letters associated with a keyword*).

As to **Claims 12 and 38**, *Ryan, Knight in combination with Dumais teaches* wherein the number data comprises whether the keyword comprises numbers (*Ryan, column 11, lines 30-40, wherein Table 1 illustrates a unique number for each keyword*).

As to **Claims 13 and 39**, *Ryan, Knight in combination with Dumais teaches* wherein ranking the article identifiers is based at least in part on characteristics of the content of the article, wherein the characteristic comprise capitalization data associated with content within the article (*Ryan, column 28, line 67, wherein keyword "NHL" read on capitalization data*).

As to **Claims 14 and 40**, *Ryan, Knight in combination with Dumais teaches* wherein ranking the article identifiers is based at least in part on a number of sources from which the keyword was located (*Knight, Figures 2 (block225) and 4 (block408), column 19, lines 39-40*).

As to **Claims 15 and 41**, *Ryan, Knight in combination with Dumais teaches* wherein ranking the article identifiers is based at least in part on a number of result sets in which the result appears (*Ryan, Figures 3A-B, 7 and 16, column 1, lines 59-60; column 21, lines 28-41*).

As to **Claims 16 and 42**, *Ryan, Knight in combination with Dumais teaches* further comprising:

- analyzing the content of the article associated with the event concerning the user's current context to extract a plurality of keywords (*Dumais, Figure 1, column 4, lines 41-67 and column 5, lines 1-8*); and
- determining keyword ranking scores for the plurality of keywords (*Ryan, column 22, lines 4-11; column 33, lines 31-35, wherein the highest value of P for the keyword or profile type determines the ranking score*).

As to **Claims 17 and 43**, *Ryan, Knight in combination with Dumais teaches* wherein ranking the article identifiers is based at least in part on the keyword ranking scores (*Ryan, Figure 8, column 21, lines 51-67*).

As to **Claims 18 and 44**, *Ryan, Knight in combination with Dumais teaches* wherein ranking the article identifiers comprises assigning a higher



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ranking to article identifiers associated with articles containing higher ranked keywords (*Ryan, column 21, lines 65-67*).

As to **Claims 19 and 45**, *Ryan, Knight in combination with Dumais teaches* wherein analyzing the content of the article associated with the event concerning the user's current context to extract at least one keyword comprises extracting a keyword from at least one of recently typed words, an entire document, a selected portion of a document, or words surrounding a cursor (*Dumais, Figure 1, column 4, lines 41-67 and column 5, lines 1-8*).

As to **Claims 20 and 46**, *Ryan, Knight in combination with Dumais teaches* wherein analyzing the content of the article associated with the event concerning the user's current context to extract at least one keyword from an event comprises determining proper names (*Ryan, column 28, line 67 wherein NHL is equivalent to proper names*).

As to **Claims 21 and 47**, *Ryan, Knight in combination with Dumais teaches* wherein determining proper names comprises crawling at least one article (*Ryan, column 19, lines 31-32, wherein sending specialist crawlers out to find web site addresses and keywords, wherein website and keywords read on proper names, wherein determining inherently includes in the crawling process*).

As to **Claim 54**, *Ryan, Knight in combination with Dumais teaches* wherein the article is a document on the client device (*Knight, Figure 3C, block325, wherein each entry is equivalent to a document*), and wherein the event

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comprises an addition of words to the document (*Knight, Figure 3C, block340, wherein additional text is added*).

As to **Claim 55**, *Ryan, Knight in combination with Dumais teaches wherein the article is a document on the client device, and wherein the event comprises a placement of a cursor near words in the document (Knight, column 16, lines 1-6).*

As to **Claim 56**, *Ryan, Knight in combination with Dumais teaches wherein the article is associated with one client application selected from a group consisting of a word processing program, a spreadsheet program, a presentation program, an e-mail program, an instant messenger program, and a database program (Knight, column 17, lines 22-24, wherein Prophet-Charts read on a spreadsheet, presentation, and/or e-mail programs).*

As to **Claims 22 and 48** *Ryan teaches a method of outputting article identifiers of a result set from an implicit query implied from a user's current context, the method comprising:*

- *receiving an event concerning the user's current context (Abstract, lines 1-5), wherein the event comprises a user interaction with an article having content stored on a local client device (Figures 1B, block100A-D, column 4, lines 3-4), wherein the article is associated with at least one of a plurality of client applications (column 36 line 46 – column 38 line 15 wherein the search system described is an example of a client application);*

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- filtering the result set based on a threshold (*columns 16-17, lines 61-67 and lines 1-6, wherein illustrated within table 8*); and
- outputting the article identifiers associated with the filtered result set (*Figure 6, column 21, lines 14-27*)
- *Ryan does not explicitly teach* generating an implicit query based at least in part on the at least one keyword; performing a search based at least in part on the implicit query to determine a result set, wherein the result set comprises one or more article identifiers associated with articles comprising the at least one keyword. However,

*Knight teaches* generating an implicit query (*column 8, line 48-51*) based at least in part on the at least one keyword (*Figure 2, column 19, lines 45-51 wherein data filtered implicitly equivalent to keyword*); performing a search based at least in part on the implicit query to determine a result set (*Figures 3A (block307A), 3D (block360), 4 and 5 (block530), column 11, lines 45-48 and line 52 wherein retrieving entries meeting the user's search/filter criteria read on the implicit query to determine a result set limitation*), wherein the result set comprises one or more article identifiers associated with articles comprising the at least one keyword (*Figure 5A, block581*). Thus, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine method to manage queries teaching of Knight with search engine teaching of Ryan to provide method and system which enhance and improve the overall performance of computer system that

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- access and display a collective amount of shared interest data and information in response to user's request.
- *Ryan in combination with Knight does not explicitly teach analyzing the content of the article with the event concerning the user's current context to extract at least one keyword. However, Dumais teaches analyzing the content of the article with the event concerning the user's current context to extract at least one keyword (Figure 1, column 4, lines 41-67 and column 5, lines 1-8). Thus, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine method for usage analyzer that determines user accessed sources and associated metadata, processing implicit queries based on interest to users teaching of Dumais with method to manage queries teaching of Knight and search engine teaching of Ryan to provide method and system that facilitate information retrieval of data wherein the retrieval of data is provided to a user in a cognitively relevant manner (Dumais, column 1 lines 12-14).*

As to **Claims 23 and 49**, *Ryan, Knight in combination with Dumais teaches wherein the threshold comprises a number of keywords (Ryan, column 18, lines 50-51, wherein a set number of keywords read on the threshold limitation).*

As to **Claims 24 and 50**, *Ryan, Knight in combination with Dumais teaches wherein the threshold comprises a minimum weighting score based at least in part on one or more of a number of keywords multiplier, a source*

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multiplier, and a time multiplier (*Ryan, column 18, lines 5-10 illustrate a number of keywords multiplier, a source multiplier, and a time multiplier*).

As to Claims **25 and 51**, *Ryan, Knight in combination with Dumais teaches further comprising determining a ranking score for each of the one or more articles identifiers (Ryan, column 22, lines 4-11; column 33, lines 31-35, wherein the highest value of P for the keyword or profile type determines the ranking score)*.

As to **Claims 26 and 52**, *Ryan, Knight in combination with Dumais teaches further comprising arranging the article identifiers based at least in part on ranking score (Ryan, column 23, lines 12-19, e.g. the web pages are ranked based on Z in block 174 of Figure 5)*.

Claims 6 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,421,675 issued to Ryan et al ("Ryan"), further in view of US Patent No. 6,571,234 issued to Knight et al ("Knight"), and further in view of US Patent No. 7,162,473 issued to Dumais et al. ("Dumais") as applied to claims 5 and 31 above, and further in view of Pub. No. US2003/0093790 issued to Logan et al. ("Logan").

As to **Claims 6 and 32**:

*Ryan, Knight in combination with Dumais teaches all the elements of Claims 5 and 31 as stated above respectively.*

*Ryan, Knight in combination with Dumais does not explicitly teach* wherein the meta-data comprise at least one of bolding, highlighting, italicizing, font color, or heading data of content within the article.

*Logan teaches* wherein the meta-data comprise at least one of bolding, highlighting, italicizing, font color, or heading data of content within the article (page 20 [0264]). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine metadata utilization teaching of Logan with method for usage analyzer that determines user accessed sources and associated metadata, processing implicit queries based on interest to users teaching of Dumais, method to manage queries teaching of Knight and search engine teaching of Ryan to provide method and system which use metadata to selectively organize data content (Logan [0004]).

Claims 7-9 and 33-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,421,675 issued to Ryan et al ("Ryan"), further in view of US Patent No. 6,571,234 issued to Knight et al ("Knight"), and further in view of US Patent No. 7,162,473 issued to Dumais et al. ("Dumais") as applied to claims 1 and 27 above, and further in view of Pub. No. US2004/0059730 issued to Ming Zhou ("Zhou").

**As to Claims 7 and 33:**

*Ryan, Knight in combination with Dumais teaches* all the elements of Claims 1 and 27 as stated above respectively.

*Ryan, Knight in combination with Dumais does not explicitly teach* wherein ranking the article identifiers is based at least in part on a term frequency and a document frequency.

*Zhou teaches* wherein ranking the article identifiers is based at least in part on a term frequency and a document frequency (*page 5 [0051]*). Thus, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine method for detecting user query intention teaching of Zhou with method for usage analyzer that determines user accessed sources and associated metadata, processing implicit queries based on interest to users teaching of Dumais, method to manage queries teaching of Knight and search engine teaching of Ryan to provide method and system which use term frequency and inverse document frequency algorithm to rank article identifiers.

As to **Claims 8 and 34**, *Ryan, Knight, Dumais in combination with Zhou teaches* wherein ranking the article identifiers comprises determining a rank that is proportional to the log of the sum of a first constant plus the term frequency and inversely proportional to the log of the sum of a second constant plus the document frequency (*Zhou, page 5 [0051, Equation 2]*).

As to **Claims 9 and 35**:

*Ryan, Knight in combination with Dumais teaches* all the elements of Claims 1 and 27 as stated above respectively.

*Ryan, Knight in combination with Dumais does not explicitly teach* wherein ranking the article identifiers comprises determining a rank that is proportional to the log of the sum of a constant plus a term frequency and inversely proportional to the output of a mapping function that maps ranges of document frequency into constants.

*Zhou teaches* wherein ranking the article identifiers comprises determining a rank that is proportional to the log of the sum of a constant plus a term frequency and inversely proportional to the output of a mapping function that maps ranges of document frequency into constants (*page 5 [0051, Equation 2]*). Thus, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine method for detecting user query intention teaching of Zhou with method for usage analyzer that determines user accessed sources and associated metadata, processing implicit queries based on interest to users teaching of Dumais, method to manage queries teaching of Knight and search engine teaching of Ryan to provide method and system which use term frequency and inverse document frequency algorithm to rank article identifiers.

Claim 53 is rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,421,675 issued to Ryan et al ("Ryan"), further in view of US Patent No. 6,571,234 issued to Knight et al ("Knight"), further in view of US Patent No. 7,162,473 issued to Dumais et al. ("Dumais"), and further in view of Pub. No. US2004/0059730 issued to Ming Zhou ("Zhou").



As to **Claim 53**, *Ryan teaches* a method of ranking article identifiers of a result set from an implicit query implied from a user's current context, the method comprising:

- receiving a contextual event concerning the user's current context (*Abstract, lines 1-5*), the event comprising a user's modification of a file having content stored on a local client device (*Figures 1B, block100A-D, column 4, lines 3-4*);
- determining a ranking score for the one or more article identifiers based on one or more of: user preference data (*Figures 2 and 3B, column 5, lines 29-32 wherein personalization information such as search customization preferences read on user preference data*), click-through data (*Figures 3B and 23, column 33, lines 15-18*), file type (*column 37, line 22 wherein journal read on file type limitation*), meta-data (*Figures 19 and 20, wherein defined in column 28, lines 19-53; column 30, lines 62-66, wherein each content transmitted with the search results made up of web pages listing is tagged, wherein meta-data is interpreted to be data used to describe other data*), number data (*column 17, lines 40-45 illustrate the ranking is based on number data*), capitalization data (*column 28, line 67, wherein keyword "NHL" read on capitalization data*), proper names (*column 28, line 67 wherein NHL is equivalent to proper names*), number of sources (*column 16, line 36 wherein a count location read on number of sources limitation*), and number of queries (*column 16, line50 wherein a keyword search count read on number of queries limitation*); and

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- ranking the one or more article identifiers in the result set based on the ranking score (*column 6, lines 13-16; Figure 8, column 21, lines 51-67*).
- *Ryan does not explicitly teach* generating an implicit query based at least in part on the at least one keyword extracted from the file; performing a search based at least in part on the implicit query to determine a result set, wherein the result set comprises one or more article identifiers associated with articles comprising the at least one keyword. However, *Knight teaches* generating an implicit query (*column 8, line 48-51*) based at least in part on the at least one keyword extracted from the file (*Figure 2, column 19, lines 45-51 wherein data filtered implicitly equivalent to keyword*); performing a search based at least in part on the implicit query to determine a result set (*Figures 3A (block307A), 3D (block360), 4 and 5 (block530), column 11, lines 45-48 and line 52 wherein retrieving entries meeting the user's search/filter criteria read on the implicit query to determine a result set limitation*), wherein the result set comprises one or more article identifiers associated with articles comprising the at least one keyword (*Figure 5A, block581*). Thus, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine method to manage queries teaching of Knight with search engine teaching of Ryan to provide method and system which enhance and improve the overall performance of computer system that access and display a collective amount of shared interest data and information in response to user's request.

- *Ryan in combination with Knight does not explicitly teach* analyzing the content of the file stored on the local client device to extract at least one keyword. However, *Dumais teaches* analyzing the content of the file stored on the local client device to extract at least one keyword (*Figure 1, column 4, lines 41-67 and column 5, lines 1-8*). Thus, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine method for usage analyzer that determines user accessed sources and associated metadata, processing implicit queries based on interest to users teaching of Dumais with method to manage queries teaching of Knight and search engine teaching of Ryan to provide method and system that facilitate information retrieval of data wherein the retrieval of data is provided to a user in a cognitively relevant manner (Dumais, column 1 lines 12-14).
- *Ryan, Knight in combination with Dumais does not explicitly teach* term frequency, inverse document frequency. However, *Zhou teaches* term frequency, inverse document frequency (*page 5 [0051]*). Thus, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine method for detecting user query intention teaching of Zhou with method for usage analyzer that determines user accessed sources and associated metadata, processing implicit queries based on interest to users teaching of Dumais, method to manage queries teaching of Knight and search engine teaching of Ryan to provide method

and system which use term frequency and inverse document frequency algorithm to rank article identifiers.

### ***Response to Arguments***

5. Applicant's arguments with respect to claims 1-56 have been considered but are moot in view of the new ground(s) of rejection. Furthermore,

- Applicant argues: In paragraph 3 of page 17, Applicant stated that "Claims 22 and 48 similarly recite "analyzing the content of the article associated with the event concerning the user's current context to extract at least one keyword from the event." All arguments advanced above with respect to claims 1 and 27 equally apply to claims 22 and 48. Thus, for at least these reasons, Applicants submit that claims 1, 22, 27 and 48 are patentable over Ryan, Knight and Ducatel, both alone and in combination".

Examiner responds: Examiner is not persuaded. Dumais teaches in Figure 1, column 4 lines 41-67 and column 5 lines 1-8 that read on the above cited limitation as recited in claim 1 and similar claims 22, 27, 48 and 53.

- Applicant argues: In paragraph 3 of page 17, Applicant stated that "Amended claim 6 recites that "the meta-data comprise at least one of bolding, highlighting, italicizing, font color, or heading data of keywords of the article." In the claimed invention, meta-data such as highlighting of content of the article are used to rank article identifiers. There is no, hint, mention or

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suggestion in Ryan, Knight, Ducatel or Zhou of the recited feature. The Examiner notes that Ryan discloses that keywords with the most search results are highlighted. However there is no disclosure in Ryan that the highlighting is used to rank article identifiers. Ryan's disclosure of highlighting is used to merely indicate to the user which keywords had the most search results".

Examiner responds: Examiner is not persuaded. Logan teaches in [0264] that read on the above cited limitation as recited in Claim 6 and similar Claim 32.

#### ***Citation of Pertinent Prior Art***

6. The prior art made of record and not relied upon in form PTO-892 if any is considered pertinent to applicant's disclosure.

#### ***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Ha Dang whose telephone number is 571-272-4033. The examiner can normally be reached on Monday-Friday from 9:00 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Thanh-Ha Dang  
Examiner, AU 2163  
December 29, 2008

/Hung T Vy/

Primary Examiner, Art Unit 2163